TECHNICAL SHEET

Intelliref V2

Intelliref V2 Low Temperature

Intelliref V2 Plus

CONTROLLER:

Part Number	**0419-00078**	**0419-00079**	**0419-00081**
Normal Operation Description	designed to simplify refrigeration control by combining the functions of a thermostat and defrost timeclock.	designed to simplify refrigeration control by combining the functions of a thermostat and defrost timeclock.	Designed to simplify refrigeration control without compromising on energy savings. Will only defrost when necessary and will manage Evaporator fan behavior (speed, run time, ...) with compressor cycles

REFRIGERATION CYCLE:

Evaporator Fan Management	No management available N.B.: Fans run continously in a cooler. Typically no management of fan required	Management available. ON/OFF vs Temperature setpoint	• Run Continuously • Cycle based on room temperature and coil • Cycle based on temperature • Cycle on with compressor • Two speed fans based on room temperature • Variable speed fans using a 0-10v output
Valve Control	TEV (Thermal Expansion Valve)	TEV (Thermal Expansion Valve)	• TEV (Thermal Expansion Valve) • EEV (Electronic Expansion Valve)
Condensing unit (Compressor) protection	Nb of starts per hour	Nb of starts per hour	Minimum runtime and minimum off-time setpoints

DEFROST:

As Cooler (defrost type)	Air (off time)	• Air (off time) • Electric	• Air • Electric • Can control Hot Gas
As Freezer (defrost type)	N/A	Electric	• Electric • Can control Hot Gas
Initiate Defrost	• Time • Interval • Manual	• Time • Interval • Manual	• On demand (self regulated) • Time • Run-Time
Terminate Defrost	Time	• Time • Coil Temperature	• Time • Coil Temperature

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EMBEDDED DISPLAY:			
Display	**3 digits 7-segment LED**	**3 digits 7-segment LED**	**3 digits 7-segment LED**
Defrost indicator	•	•	•
Compressor On-time indicator	•	•	•
Alarm indicator	•	•	•
Alarm code on display	•	•	•
Audible Buzzer		•	•
Buzzer and light - Remote install			Optional
COMMUNICATION:			
Communication thru comprehensive Web interface on laptop with hardwire or WiFi connection	Available with EM-PLUS option	Available with EM-PLUS option	Available with EM-PLUS option
Data Logging	Available with EM-PLUS option	Available with EM-PLUS option	Available with EM-PLUS option
Communication port	ModBus with RS-485	ModBus with RS-485	ETHERNET TCP/IP, API, XML
ADDITIONAL INPUT			
DOOR SWITCH		Optional	Optional
2nd Temperature probe for one room		Optional	Optional

EM-PLUS OPTION**	
Local dashboard access (for setup and alarm)	Via web interface, thru hardwire or WiFi connection
Remote alarm	• E-mail • SMS / text message
Quantity of KE2 object that can be managed with EM-PLUS	Up to 35 KE2 objects
Communication port	• ModBus with RS-485 • ETHERNET TCP/IP, API, XML

****Requires 120V electrical outlet (separate from refrigeration system and control preferable)**

DATA LOGGING WITH EM-PLUS OPTION***	
Data collecting device	SD card
Recording period	366 days
Recording frequency	Every 5 min, up to once a day
Principal recorded information	• Time Stamp Room • Temp Setpoint • Room Temp • Alarm type • System mode (refrigeration cycle)
Data output file format	.csv, can be opened in Microsoft Excel or Access

*****Requires an internet connection and router, connection cable to router non included**